

Features

- Halogen Free ."Green"Device^(Note 1)
- AEC-Q101 Qualified
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-100	V
Collector-Emitter Voltage	V _{CEO}	-100	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	Ι _C	-6	А
Power Dissipation@ T _A =25°C	P _D	1.25	W
Power Dissipation@ T _C =25°C	P _D	15	W

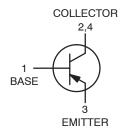
Thermal characteristics

Parameter	Symbol	Rating	Unit
Junction Temperature Range	TJ	-55~+150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C
Thermal Resistance from Junction to Ambient	Rth _(J-A)	100	°C/W
Thermal Resistance from Junction to Case	Rth _(J-C)	8.3	°C/W

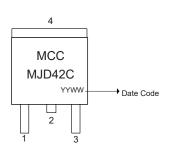
Note:

1.Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

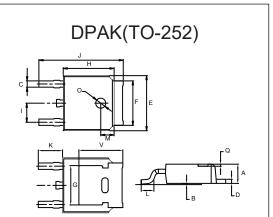
Internal Structure:



Marking Code:

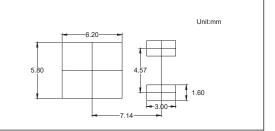


PNP Power Transistors



DIMENSIONS					
DIM	DIM INCHES		M	М	NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
А	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		TYP.
Н	0.236	0.244	6.00	6.20	
I	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
K	0.114		2.90		TYP.
L	0.055	0.067	1.40	1.70	
М	0.063		1.60		TYP.
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.211		5.35		TYP.

Suggested Solder Pad Layout

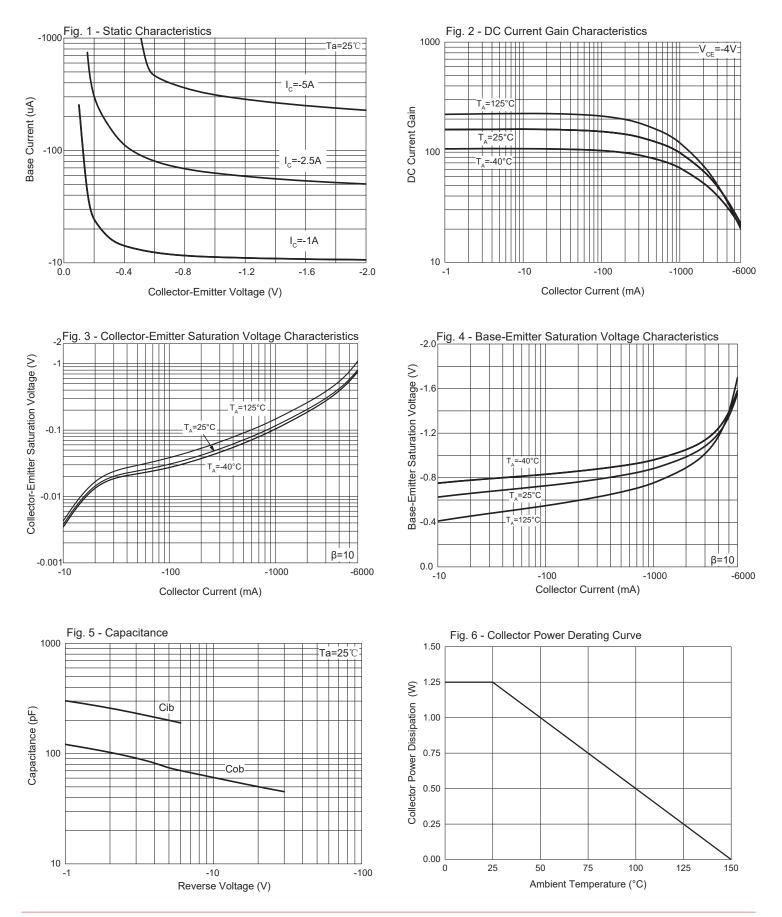


Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Мах	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-100			V	I _C =-0.1mA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-100			V	I _C =-30mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-0.1mA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-10	μA	V_{CB} =-60V, I _E =0
Collector-Emitter Cutoff Current	I _{CEO}			-10	μA	V _{CE} =-60V, I _B =0
Emitter-Base Cutoff Current	I _{EBO}			-10	μA	V _{EB} =-5V, I _C =0
DC Current Gain	h _{FE(1)}	30				V _{CE} =-4V, I _C =-1A
De current Gain	h _{FE(2)}	15		75		V_{CE} =-4V, I_{C} =-3A
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-1.5	V	I _C =-6A, I _B =-0.6A
Base-Emitter Voltage	V _{BE}			-2.0	V	V _{CE} =-4V, I _C =-6A
Transition Frequency	f _T	3			MHz	V _{CE} =-10V, I _C =-0.5A, f=100MHz

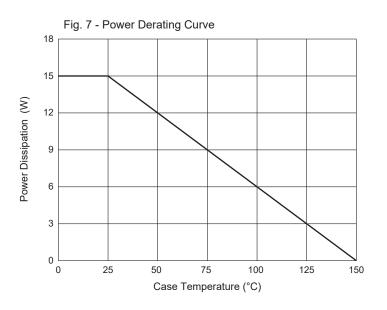


Curve Characteristics





Curve Characteristics





Ordering Information

Device	Packing			
MJD42CHE3-TP	Tape&Reel: 2.5Kpcs/Reel			

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